

FIG. 1

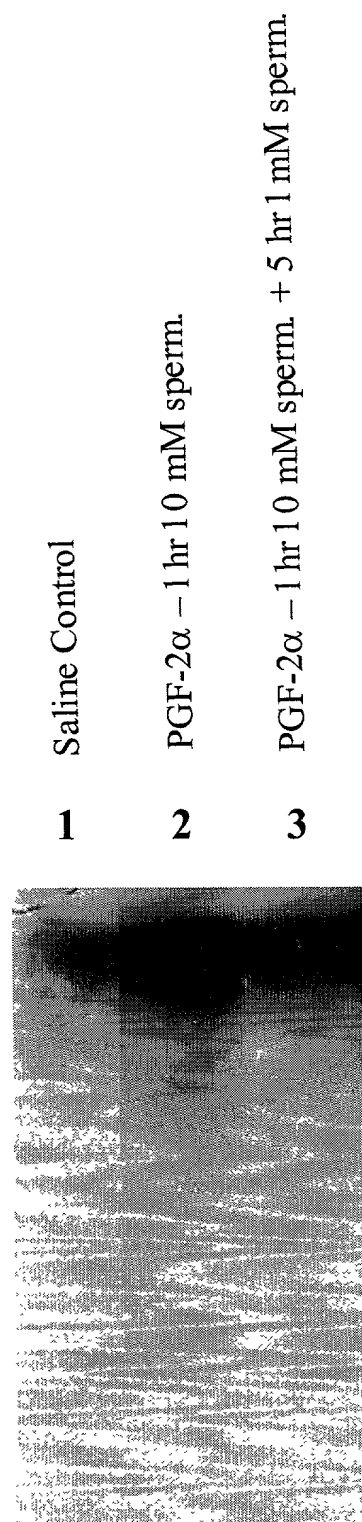
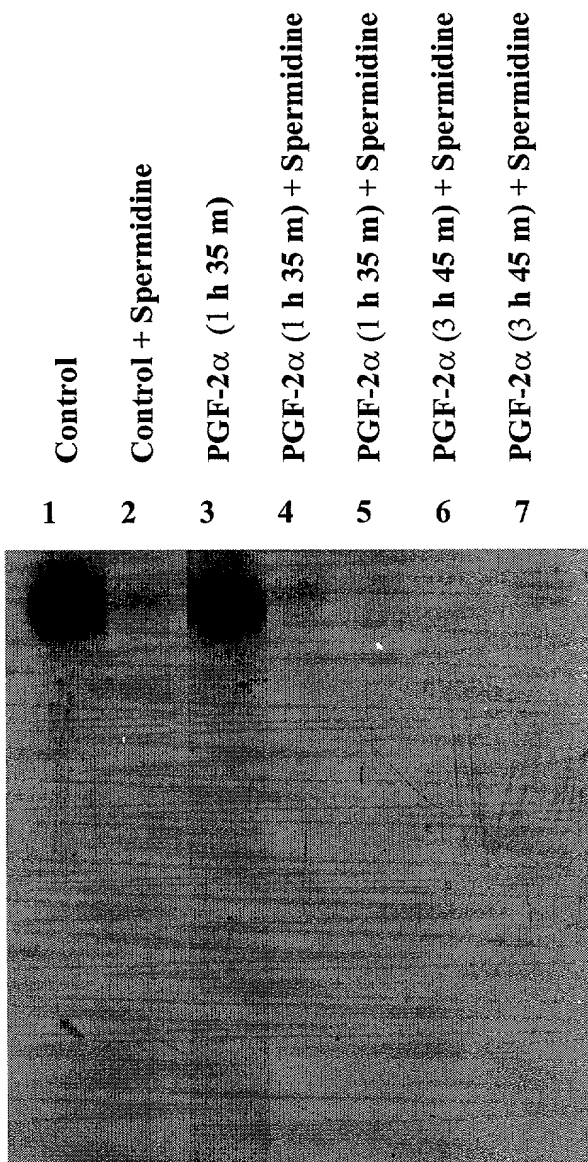


FIG. 2



TCGAAGACCGGTAAGCACGGCCATGCCAAGGTCCATCTGGTTGGTATTGATATTTTACTGGGAAGAAATAT  
 S K T G K H G H A K V H L V G I D I F T G K K Y  
 GAAGATATCTGCCCCGTCGACTCATAACATGGATGTCCCCAACATCAAAAGGAATGATTTCCAGCTGATTGGC  
 E D I C P S T H N M D V P N I K R N D F Q L I G  
 ATCCAGGATGGGTACCTATCCCTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAGGGA  
 I Q D G Y L S L L Q D S G E V R E D L R L P E G  
 GACCTTGGCAAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCCGCCATG  
 D L G K E I E Q K Y D C G E E I L I T V L S A M  
 ACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA**TAA**CTGGCTTCCAGGGTGGCGGTGGTGGCAGCA  
 T E E A A V A I K A M A K  
 GTGATCCATGAGCCTACAGAGGCCCTCCCCAGCTCTGGCTGGGCCCTTGGCTGGACTCCTATCCAATTTA  
 TTTGACGTTTTATTTTGGTTTTCTCACCCCTTCAAACCTGTGGGGAGACCCTGCCCTTACCTAGCTCCCT  
 TGGCCAGGCATGAGGGAGCCATGGCCTTGGTGAAGCTACCTGCCTCTTCTCTCGCAGCCCTGATGGGGGAAA  
 GGGAGTGGGTACTGCCTGTGGTTTAGGTTCCCTCTCCCTTTTTCTTTTAATTCAATTTGGAATCAGAAAG  
 CTGTGGATTCTGGCAAATGGTCTTGTGTCCTTTATCCCACTCAAACCCATCTGGTCCCCTGTTCTCCATAGT  
 CCTTCACCCCCAAGCACCCTGACAGACTGGGGACCAGCCCCCTTCCCTGCCTGTGTCTTCCCAAACCCC  
 TCTATAGGGGTGACAAGAAGAGGAGGGGGGAGGGGACACGATCCCTCCTCAGGCATCTGGGAAGGCCTTGC  
 CCCCATGGGCTTTACCTTTTCTGTGGGCTTTCTCCCTGACACATTGTTAAAAATCAAACCTGAATAAAAC  
 TACAAGTTTAATATGAAAAAAAAAAAAAAAAAAAAA  
 (972 NT, 109 aa)

Figure 3





[illegible][illegible][illegible]



rat vs. mouse (BC003889) 98.3% identity (coding)

	10	20	30	40	50	60
rat	ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG					
	::					
mouse	ATGGCAGATGATTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATG					
	10	20	30	40	50	60
rat	CAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAGGGCCGCCATGTAAGATC					
	::					
mouse	CAGTGCTCAGCATTACGTAAGAATGGTTTTGTGGTGCTCAAGGGCCGCCATGTAAGATC					
	70	80	90	100	110	120
rat	GTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGT					
	::					
mouse	GTCGAGATGTCTACTTCGAAGACTGGCAAGCATGGCCATGCCAAGGTCCATCTGGTTGGC					
	130	140	150	160	170	180
rat	ATTGATATTTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCGACTCATAACATGGAT					
	::::: ::					
mouse	ATTGACATTTTTACTGGGAAGAAATATGAAGATATCTGCCCCGTCGACTCATAATATGGAT					
	190	200	210	220	230	240
rat	GTCCCCAACATCAAAGGAATGATTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCC					
	::					
mouse	GTCCCCAACATCAAACGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCC					
	250	260	270	280	290	300
rat	CTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAGGGAGACCTTGGC					
	::					
mouse	CTGCTCCAGGACAGTGGGGAGGTACGAGAGGACCTTCGTCTGCCTGAAGGAGACCTTGGC					
	310	320	330	340	350	360
rat	AAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCCGCC					
	::					
mouse	AAGGAGATTGAGCAGAAGTATGACTGTGGAGAAGAGATCCTGATCACAGTGCTGTCTGCC					
	370	380	390	400	410	420
rat	ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA					
	::					
mouse	ATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA					
	430	440	450	460		

Figure 8



rat vs. human(BC000751 or NM\_001970) 100.0% identity

```

      10      20      30      40      50      60
rat   MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
      .....
human MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG
      10      20      30      40      50      60

      70      80      90     100     110     120
rat   IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG
      .....
human IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG
      70      80      90     100     110     120

      130     140     150
rat   KEIEQKYDCGEEILITVLSAMTEEA AVAIKAMAK
      .....
human KEIEQKYDCGEEILITVLSAMTEEA AVAIKAMAK
      130     140     150
```

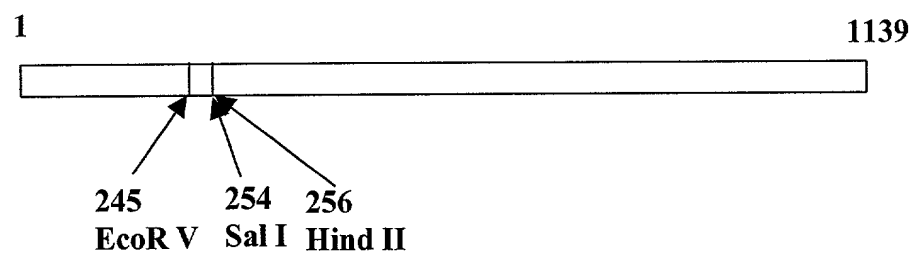
Figure 9



rat vs. mouse (BC003889)100.0% identity

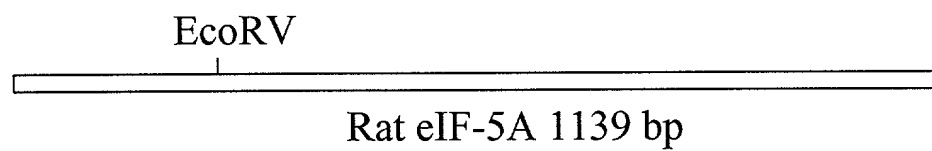
	10	20	30	40	50	60
rat	MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG					
	:	:	:	:	:	:
mouse	MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVG					
	10	20	30	40	50	60
	70	80	90	100	110	120
rat	IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG					
	:	:	:	:	:	:
mouse	IDIFTGKKYEDICPSTHNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLG					
	70	80	90	100	110	120
	130	140	150			
rat	KEIEQKYDCGEEILITVLSAMTEEA A VAIKAMAK					
	:	:	:	:	:	:
mouse	KEIEQKYDCGEEILITVLSAMTEEA A VAIKAMAK					
	130	140	150			

Figure 11



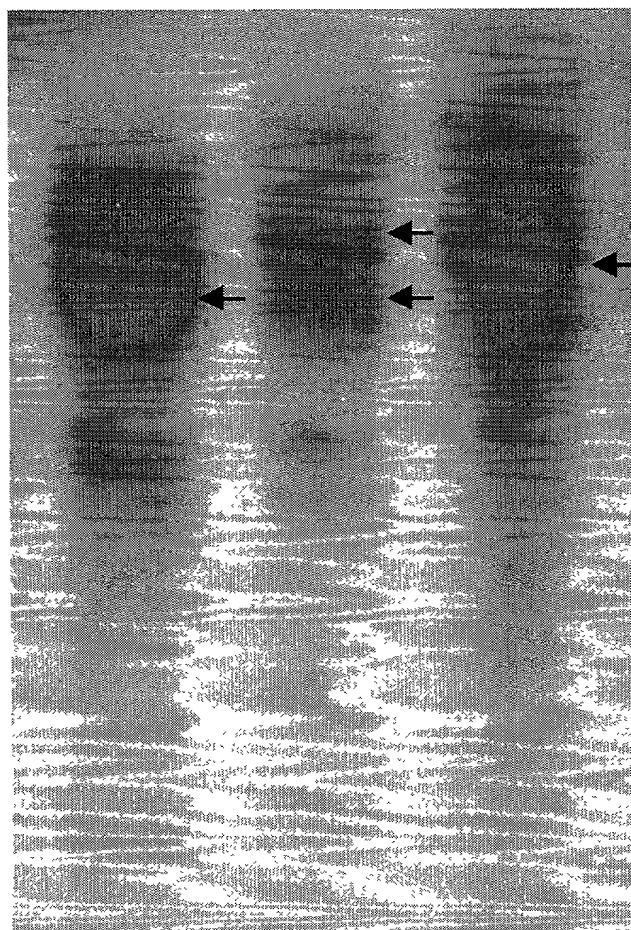
**Figure 12**

# Southern Blot of Rat Genomic DNA



**EcoR1   EcoRV   BamH1**

**Full-length  
rat eIF-5A  
cDNA probe**



**FIG. 13**

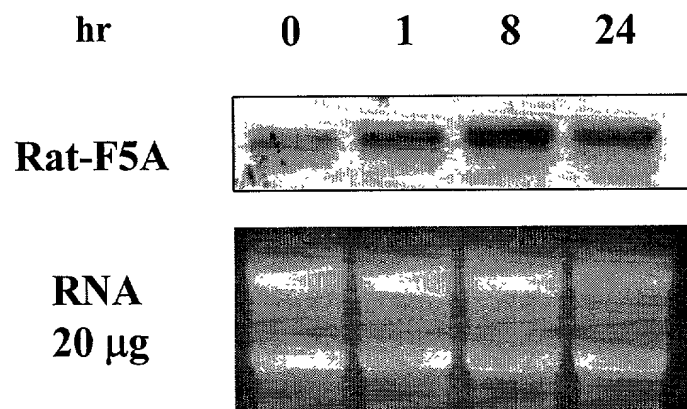
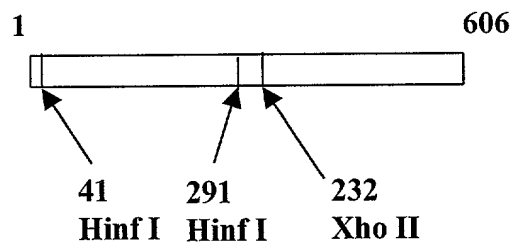


Figure 14

GCTGTGTATTATTGGGCCCATAGAACCACATACCTGTGCTGAGTCCTGCACTCACAGACGGCTCACTGGGT  
 A V Y Y W A H K N H I P V L S P A L T D G S L G  
 GACATGATCTTTTTCCATTCCCTATAAAAAACCCAGGCTTGGTCCTGGACATCGTTGAAGACCTGCGGCTCATC  
 D M I F F H S Y K N P G L V L D I V E D L R L I  
 AACATGCAGGCCATTTTCGCCAAGCGCACTGGGATGATCATCCTGGGTGGAGGCGTGGTCAAGCACCACATC  
 N M Q A I F A K R T G M I I L G G G V V K H H I  
 GCCAATGCTAACCTCATGCGGAATGGAGCTGACTACGCTGTTTATATCAACACAGCCCAGGAGTTTGATGGC  
 A N A N L M R N G A D Y A V Y I N T A Q E F D G  
 TCAGACTCAGGAGCCCGGCCAGATGAGGCTGTCTCCTGGGGCAAGATCCGGATGGATGCACAGCCAGTAAAG  
 S D S G A R P D E A V S W G K I R M D A Q P V K  
 GTCTATGCTGATGCATCTCTGGTTTTCCCCTTGCTGGTGGCTGAGACATTCGCCCCAAAAGGCAGATGCCTTC  
 V Y A D A S L V F P L L V A E T F A Q K A D A F  
 AGAGCTGAGAAGAATGAGGACT**AG**AGCAGATGGGTAAAGACGGAGGCTTCTGCCACACCTTTATTTATTATTT  
 R A E K N E D  
 GCATACCAACCCCTCCTGGGCCCTCTCCTTGGTCAGCAGCATCTTGAGAATAAATGGCCTTTTTGTTGGTTT  
 CTGTAAAAAAAGGACTTTAAAAA

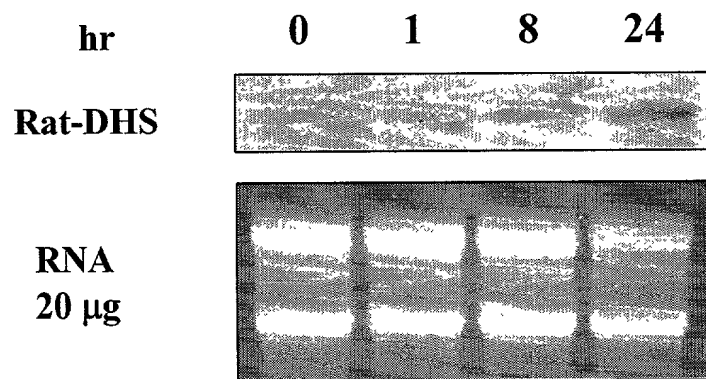
(606 NT, 151 aa)

Figure 15



**Figure 16**





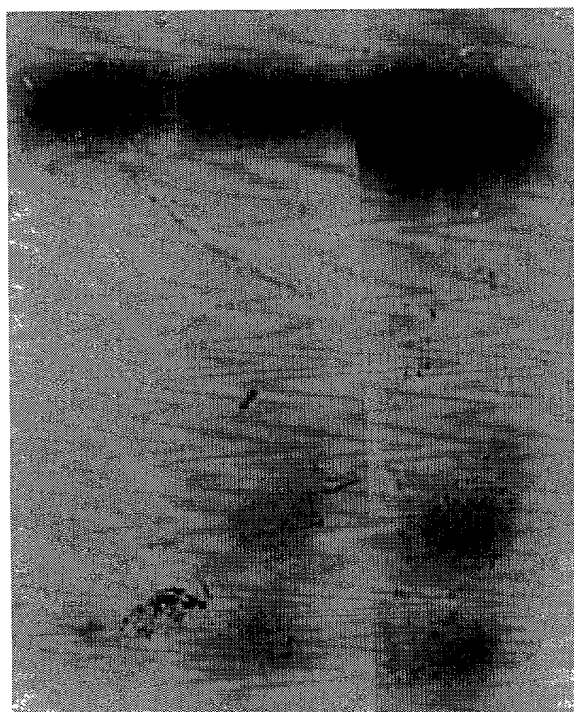
**Figure 17**

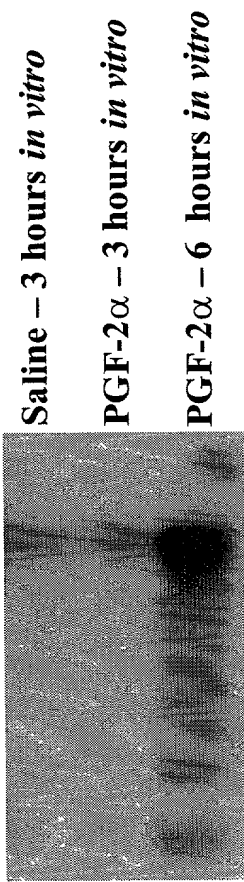


FIG. 19

**Hours After PGF-2 $\alpha$  Treatment**

**0            1            24**



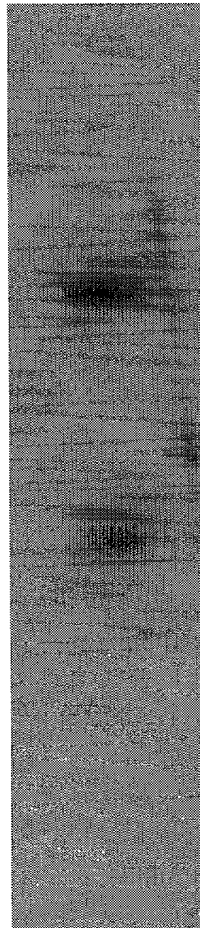


**Figure 20**

FIG. 21

## Southern Blot of Rat Genomic DNA

**EcoRV**



**Partial rat DHS  
cDNA probe**